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cc: Dick Dubose/R4/USEPA/US@EPA, James Hagedorn/R3/USEPA/US@EPA, Beverly Spagg/R4/USEPA/US@EPA
bcc:
Subject: coke oven stack opacity data

AK Team:

Below are some stats and graphs of the US Steel combustion stack data from 2010. I asked for Batteries 1, 2 and 3 because these are the older ones more comparable in age and design to the AK batteries.

To summarize:

- None of the batteries had even a single hour close to a 20% level. The highest hourly average was about 13% for battery 1
- The highest daily average for these three batteries during the period was 6.22%, well below the MACT limit of 20%
- These batteries would comply with a short term 6-minute limit well over 99% of the time.

6-Minute Data:

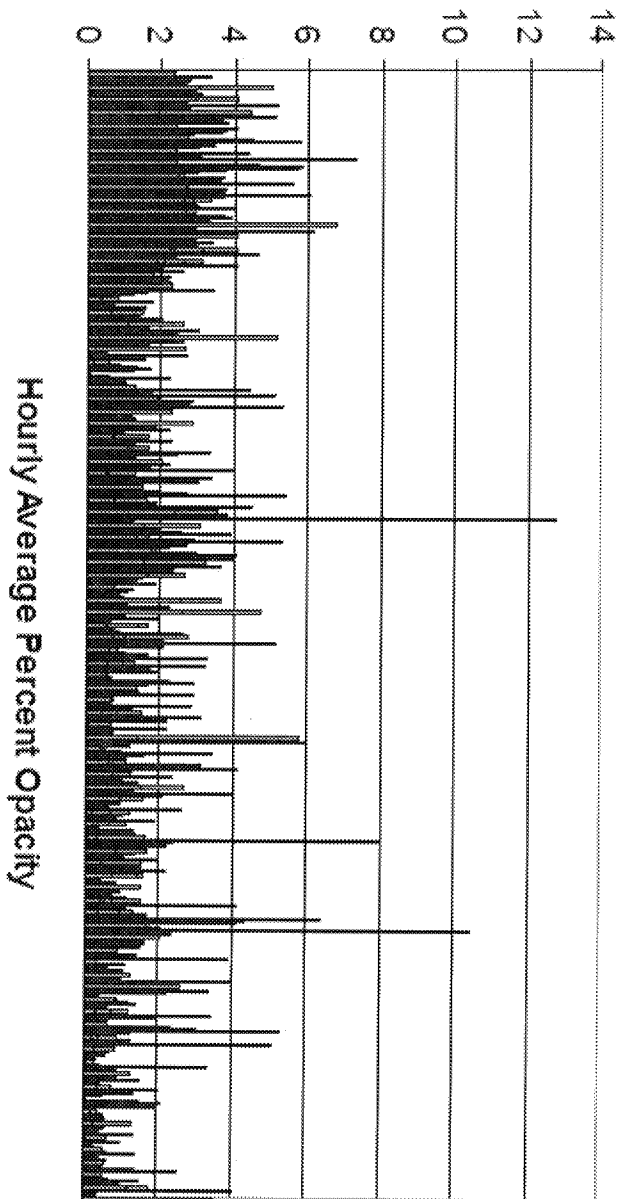
Percent of 6 minute periods at 20% opacity or less from 1/1/10 through 4/24/10:

Battery 1: 99.84%
Battery 2: 99.94%
Battery 3: 99.78%

Hourly Data:

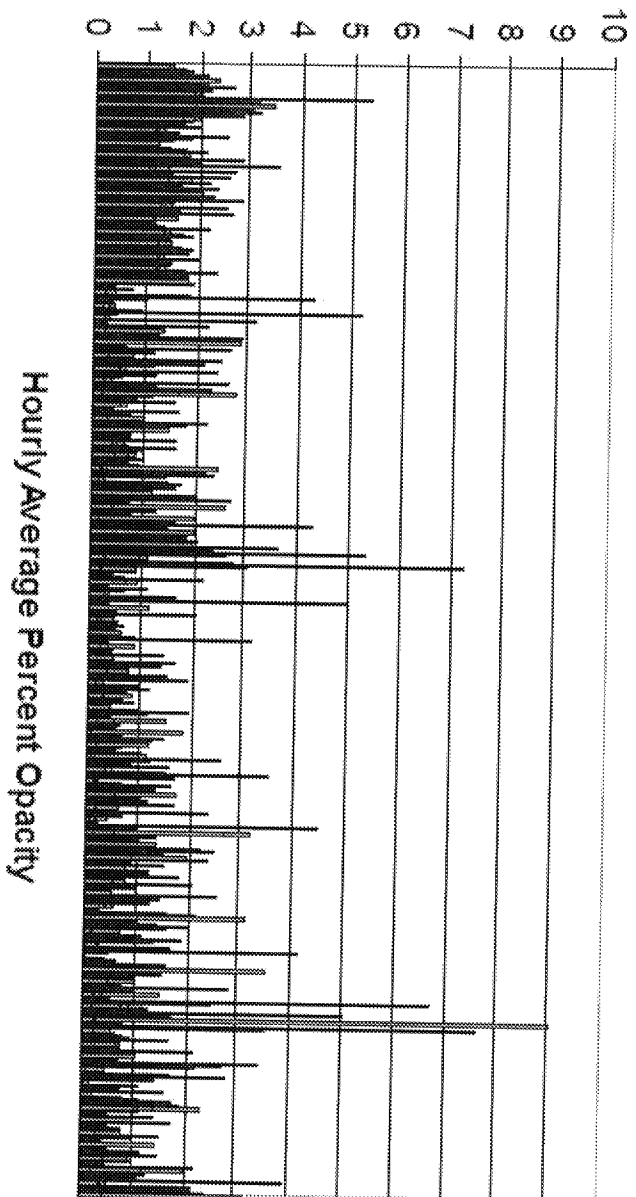
U S Steel Battery 1 Stack Opacity Hourly Averages
1/1/2010 to 3/31/2010

- Average for period: 1.15%
- Highest 24-hour average for period: 5.52%



US Steel Battery 2 Stack Opacity Hourly Averages
1/1/2010 to 3/31/2010

- Average for period: 0.75%
- Highest 24-hour average for period: 2.41%



Hourly Average Percent Opacity

US Steel Battery 3 Stack Opacity Hourly Averages
1/1/2010 to 3/31/2010

- Average for period: 1.33%
- Highest 24-hour average for period: 6.22%

